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Fast detection of communication patterns in distributed executions

Thomas Kunz, Michiel F. H. Seuren

November 1997 Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research

Full text available: pdf(4.21 MB)

Additional Information: full citation, abstract, references, index terms

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

Computing curricula 2001

September 2001 Journal on Educational Resources in Computing (JERIC)

Full text available: pdf(613.63 KB)

html(2.78 KB)

Additional Information: full citation, references, citings, index terms

3 Enhancing teaching using the Internet: report of the working group on the World Wide Web as an interactive teaching resource



Stephen Hartley, Jill Gerhardt-Powals, David Jones, Colin McCormack, M. Dee Medley, Blaine Price, Margaret Reek, Marguerite K. Summers

June 1996 ACM SIGCSE Bulletin, Proceedings of the 1st conference on Integrating technology into computer science education, Volume 28 Issue SI

Full text available: 1 pdf(1.26 MB)

Additional Information: full citation, references, citings, index terms

4 Astrolabe: A robust and scalable technology for distributed system monitoring, management, and data mining

Robbert Van Renesse, Kenneth P. Birman, Werner Vogels

May 2003 ACM Transactions on Computer Systems (TOCS), Volume 21 Issue 2

Full text available: pdf(341.62 KB) Additional Information: full citation, abstract, references, index terms

Scalable management and self-organizational capabilities are emerging as central

101015,984

requirements for a generation of large-scale, highly dynamic, distributed applications. We have developed an entirely new distributed information management system called Astrolabe. Astrolabe collects large-scale system state, permitting rapid updates and providing on-the-fly attribute aggregation. This latter capability permits an application to locate a resource, and also offers a scalable way to track sys ...

Keywords: Aggregation, epidemic protocols, failure detection, gossip, membership, publish-subscribe, scalability

5 Multimedia and visualization: Dynamic structuring of web information for access visualization

Jess Y. S. Mak, Hong Va Leong, Alvin T. S. Chan

March 2002 Proceedings of the 2002 ACM symposium on Applied computing

Full text available: pdf(765.23 KB) Additional Information: full citation, abstract, references, index terms

The Internet has led to the formation of a global information infrastructure. To explore a web site, a site map would be useful as a short cut for a user to locate for the target information in a structured and efficient manner, rather than drilling into the web site following hyperlinks, reading possibly irrelevant information. Useless information impacts a mobile web environment, where mobile clients are only connected with unreliable wireless channels of limited bandwidth. Structured web page ...

Keywords: DOM, VRML, XML, visualization, web document structure

Web engineering: A visual environment for dynamic web application composition Kimihito Ito, Yuzuru Tanaka

August 2003 Proceedings of the fourteenth ACM conference on Hypertext and hypermedia

Additional Information: full citation, abstract, references, index terms

HTML-based interface technologies enable end-users to easily use various remote Web applications. However, it is difficult for end-users to compose new integrated tools of both existing Web applications and legacy local applications such as spreadsheets, chart tools and database. In this paper, the authors propose a new framework where end-users can wrap remote Web applications into visual components called pads, and functionally combine them together through drag & drop-paste operations. ...

Keywords: hypermedia, intelligentPad, personalization, web application linkage, web application wrapping

7 Link services or link agents?

L. A. Carr, W. Hall, S. Hitchcock

May 1998 Proceedings of the ninth ACM conference on Hypertext and hypermedia: links, objects, time and space---structure in hypermedia systems: links, objects, time and space---structure in hypermedia systems

Additional Information: full citation, references, citings, index terms Full text available: pdf(1.59 MB)

Spoken dialogue technology: enabling the conversational user interface March 2002 ACM Computing Surveys (CSUR), Volume 34 Issue 1

Full text available: pdf(987.69 KB)

Additional Information: <u>full citation</u>, <u>abstract</u>, <u>references</u>, citings, index terms, review

Spoken dialogue systems allow users to interact with computer-based applications such as databases and expert systems by using natural spoken language. The origins of spoken dialogue systems can be traced back to Artificial Intelligence research in the 1950s concerned with developing conversational interfaces. However, it is only within the last decade or so, with major advances in speech technology, that large-scale working systems have been developed and, in some cases, introduced into commerc ...

Keywords: Dialogue management, human computer interaction, language generation, language understanding, speech recognition, speech synthesis

Semantic interfaces and OWL tools: Semantic email

Luke McDowell, Oren Etzioni, Alon Halevy, Henry Levy

May 2004 Proceedings of the 13th international conference on World Wide Web

Full text available: pdf(508.79 KB) Additional Information: full citation, abstract, references, index terms

This paper investigates how the vision of the Semantic Web can be carried overto the realm of email. We introduce a general notion of semantice mail, in which an email message consists of an RDF query or update coupled with corresponding explanatory text. Semantic email opens the door to a wide range of automated, email-mediated applications with formally quaranteed properties. In particular, this paper introduces a broad class of semantic email processes. For example consider the process ...

Keywords: decision-theoretic, formal model, satisfiability, semantic web

10 Session summaries from the 17th symposium on operating systems principle (SOSP'99)

Jay Lepreau, Eric Eide

April 2000 ACM SIGOPS Operating Systems Review, Volume 34 Issue 2

Full text available: pdf(3.15 MB) Additional Information: full citation, index terms

11 A survey of Web metrics

Devanshu Dhyani, Wee Keong Ng, Sourav S. Bhowmick December 2002 ACM Computing Surveys (CSUR), Volume 34 Issue 4

Full text available: pdf(289.28 KB) Additional Information: full citation, abstract, references, index terms

The unabated growth and increasing significance of the World Wide Web has resulted in a flurry of research activity to improve its capacity for serving information more effectively. But at the heart of these efforts lie implicit assumptions about "quality" and "usefulness" of Web resources and services. This observation points towards measurements and models that quantify various attributes of web sites. The science of measuring all aspects of information, especially its storage and retrieval or ...

Keywords: Information theoretic, PageRank, Web graph, Web metrics, Web page similarity, quality metrics

12 Pen computing: a technology overview and a vision

André Mever

July 1995 ACM SIGCHI Bulletin, Volume 27 Issue 3

Full text available: pdf(5.14 MB) Additional Information: full citation, abstract, citings, index terms

This work gives an overview of a new technology that is attracting growing interest in public

as well as in the computer industry itself. The visible difference from other technologies is in the use of a pen or pencil as the primary means of interaction between a user and a machine, picking up the familiar pen and paper interface metaphor. From this follows a set of consequences that will be analyzed and put into context with other emerging technologies and visions. Starting with a short historic ...

13 Modeling methodology b: XML-based modeling and simulation: web service technologies and their synergy with simulation



Senthilanand Chandrasekaran, Gregory Silver, John A. Miller, Jorge Cardoso, Amit P. Sheth December 2002 Proceedings of the 34th conference on Winter simulation: exploring new frontiers

Full text available: pdf(186.90 KB) Additional Information: full citation, abstract, references

The World Wide Web has had an huge influence on the computing field in general as well as simulation in particular (<i>e.g.</i>, Web-Based Simulation). A new wave of development based upon XML has started. Two of the most interesting aspects of this development are the Semantic Web and Web Services. This paper examines the synergy between Web service technology and simulation. In one direction, Web service processes can be simulated for the purpose of correcting/improving the design. ...

14 Information gathering in the World-Wide Web: the W3QL guery language and the W3QS system



David Konopnicki, Oded Shmueli

December 1998 ACM Transactions on Database Systems (TODS), Volume 23 Issue 4

Full text available: pdf(1.36 MB)

Additional Information: full citation, abstract, references, citings, index terms

The World Wide Web (WWW) is a fast growing global information resource. It contains an enormous amount of information and provides access to a variety of services. Since there is no central control and very few standards of information organization or service offering, searching for information and services is a widely recognized problem. To some degree this problem is solved by "search services," also known as "indexers," such as Lycos, AltaVista, Yahoo, and others. ...

Keywords: CGI, FORMS, HTML, HTTP, PERL, World-Wide Web, query language, query system

15 Analysis of lexical signatures for improving information persistence on the World Wide Web



Seung-Taek Park, David M. Pennock, C. Lee Giles, Robert Krovetz October 2004 ACM Transactions on Information Systems (TOIS), Volume 22 Issue 4

Full text available: 🔁 pdf(808.10 KB) Additional Information: full citation, abstract, references, index terms

A <i>lexical signature</i> (LS) consisting of several key words from a Web document is often sufficient information for finding the document later, even if its URL has changed. We conduct a large-scale empirical study of nine methods for generating lexical signatures, including Phelps and Wilensky's original proposal (PW), seven of our own static variations, and one new dynamic method. We examine their performance on the Web over a 10-month period, and on a TREC data set, evaluating t ...

Keywords: Broken URLs, TREC, World Wide Web, dead links, digital libraries, indexing, information retrieval, inverse document frequency, lexical signatures, robust hyperlinks, search engines, term frequency

# 16 Reducing cognitive overhead on the world wide web

Rebecca J Witt, Susan P Tyerman



Full text available: Ddf(1.10 MB)

Additional Information: full citation, abstract, references, index terms

HyperScout, a Web application, is an intermediary between a server and a client. It intercepts a page to the client, gathers information on each link, and annotates each link with the discovered information. This paper reports on the development of HyperScout var UniSA, a development of the HyperScout model and application, that dramatically extends static and dynamic link annotations. Annotations provide the user with additional information, which they use to make better navigational cho ...

Keywords: cognitive overhead, hypertext, navigation, world wide web

# 17 Crawling: Optimal crawling strategies for web search engines

J. L. Wolf, M. S. Squillante, P. S. Yu, J. Sethuraman, L. Ozsen

May 2002 Proceedings of the eleventh international conference on World Wide Web

Full text available: pdf(345.08 KB)

Additional Information: full citation, abstract, references, citings, index terms

Web Search Engines employ multiple so-called crawlers to maintain local copies of web pages. But these web pages are frequently updated by their owners, and therefore the crawlers must regularly revisit the web pages to maintain the freshness of their local copies. In this paper, we propose a two-part scheme to optimize this crawling process. One goal might be the minimization of the average level of staleness over all web pages, and the scheme we propose can solve this problem. Alternati ...

# 18 World Wide Web: Using navigation data to improve IR functions in the context of web search

Mark H. Hansen, Elizabeth Shriver

October 2001 Proceedings of the tenth international conference on Information and knowledge management

Full text available: 1 pdf(2.39 MB)

Additional Information: full citation, abstract, references, citings, index terms

As part of the process of delivering content, devices like proxies and gateways log valuable information about the activities and navigation patterns of users on the Web. In this study, we consider how this navigation data can be used to improve Web search. A query posted to a search engine together with the set of pages accessed during a search task is known as a search session. We develop a mixture model for the observed set of search sessions, and propose variants of the classical EM a ...

**Keywords**: expectation-maximization algorithm, model-based clustering, proxy access logs, query clustering, web searching

# 19 Extending the Representational State Transfer (REST) Architectural Style for **Decentralized Systems**

May 2004 Proceedings of the 26th International Conference on Software Engineering

Full text available: pdf(1.13 MB) Additional Information: full citation, abstract Publisher Site

Because it takes time and trust to establish agreement, traditional consensus-based architectural styles cannotsafely accommodate resources that change faster than ittakes to transmit notification of that change, nor resourcesthat must be shared across independent agencies. The alternative is decentralization: permitting independentagencies to make their own decisions. Ourdefinition contrasts with that of distribution, in whichseveral agents share control of a single decision. Ultimately, the physi ...

# <sup>20</sup> The state of the art in distributed query processing

Donald Kossmann

December 2000 ACM Computing Surveys (CSUR), Volume 32 Issue 4

Full text available: pdf(455.39 KB)

Additional Information: full citation, abstract, references, citings, index terms

Distributed data processing is becoming a reality. Businesses want to do it for many reasons, and they often must do it in order to stay competitive. While much of the infrastructure for distributed data processing is already there (e.g., modern network technology), a number of issues make distributed data processing still a complex undertaking: (1) distributed systems can become very large, involving thousands of heterogeneous sites including PCs and mainframe server machines; (2) the stat ...

Keywords: caching, client-server databases, database application systems, disseminationbased information systems, economic models for query processing, middleware, multitier architectures, query execution, query optimization, replication, wrappers

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**IEEE JNL** 

[PDF Full-Text (576 KB)]

[Abstract]

# 5 Toward spreadsheet-based data management in distributed enterprenvironment

Jing-Fan Tang; Bo Zhou; Zhi-Jun He; Uros, P.;

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Industrial Electronics, 2002. ISIE 2002. Proceedings of the 2002 IEEE International Processing on Malura 1, 2011 July 2002

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Nickerson, B.;

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	L2	L1 and spreadsheet\$.ti.	10
	L1	((www or (world adj1 wide adj1 web) or internet) same spreadsheet\$)	585

# END OF SEARCH HISTORY